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NO:

DERWENT-WEEK: 200271

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TITLE:

Apparatus for sterilizing and washing fruits and

vegetables using ozone

INVENTOR: KIM, B H

PATENT-ASSIGNEE: DAF [DAFDN]

PRIORITY-DATA: 2002KR-0015290 (March 21, 2002)

PATENT-FAMILY:

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APPLICATION-DATA:

PUB-NO APPL-DESCRIPTOR APPL-NO APPL-DATE

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INT-CL (IPC): A23N012/06

ABSTRACTED-PUB-NO: KR2002029014A

BASIC-ABSTRACT:

NOVELTY - An apparatus for sterilizing and <u>washing fruits and</u>
<u>vegetables</u> using ozone is provided, thereby completely sterilizing
the <u>fruits and vegetables</u> and effectively removing the remaining
agricultural chemicals from the surface of the <u>fruits and vegetables</u>.

DETAILED DESCRIPTION - An apparatus for sterilizing and washing fruits and vegetables using ozone comprises a precipitation and separation tank(1) consisting of first, second and third precipitation and separation chambers(1-1, 1-2, 1-3) with a suspension separating plate(1a), a partition wall(1c) and a plurality

of precipitate separating plates(1d) and nets(1b); an ozone storage tank(5); an ozone supplying pipe(2-1) having a pump and a controller(5-1) wherein the controller(5-1) is connected with an oxygen generator(3) equipped with a filter(3-2), and an ozone supplying pipe(4-1) connected with an ozone generator(4) equipped with an ozone monitor(4-1), an ozone detector(4-2), and a controlling plate(4-3); an ozone water-discharging pipe(5-5) connected with the ozone storage tank(6); and a contaminant discharging pipe(5-4) with a valve(5-2) in its upper part.

CHOSEN-DRAWING: Dwg.1/10

TITLE-TERMS: APPARATUS STERILE WASHING FRUIT VEGETABLE OZONE

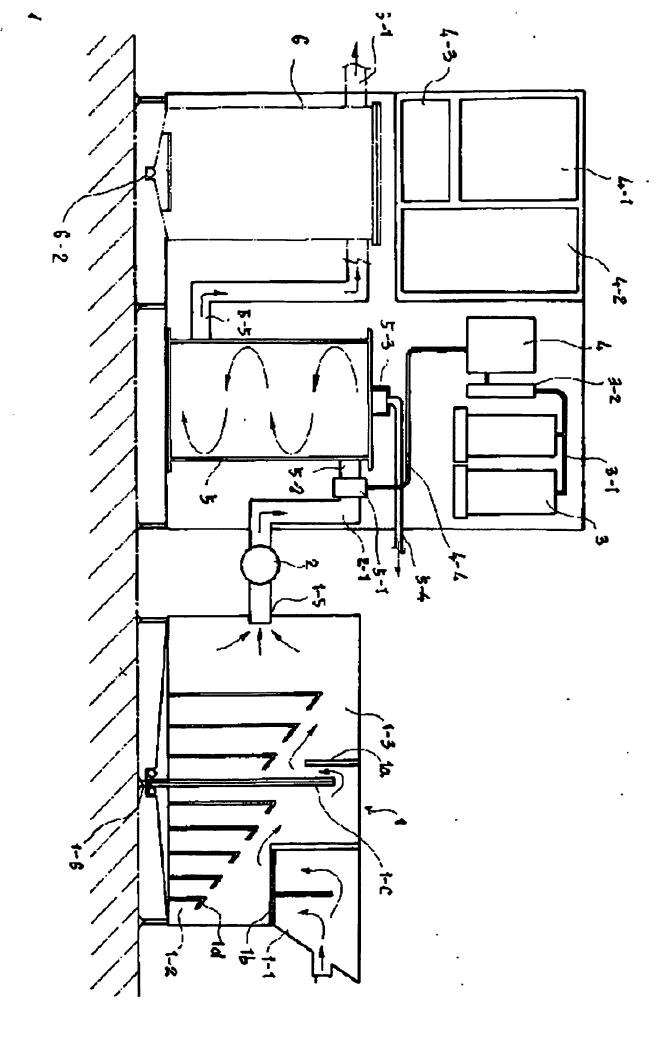
DERWENT-CLASS: D22 E36

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